

Planning Statement for VPDES Permit Application Processing DEQ-SCRO

VPDES	OwnerName	Facility	County
VA0084069	UAE Mecklenburg Cogeneration LP	UAE Mecklenburg Cogeneration LP	Mecklenburg

Outfall #: 001

River Basin: Roanoke River

Receiving Stream: Kerr Reservoir

Subbasin: Roanoke River

Watershed Code: L75L

River Mile: 36.59

MGD		MGD	
1Q10		HF 1Q10	
7Q10		HF7Q10	
30Q5		HF30Q10	
30Q10		HM	

Modeling Notes

No Model

WQMP Name No Plan

Statement

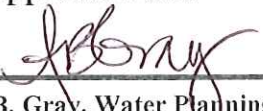
TMDL ID VAC-L75L-01/L19R-01-PCB/L19R-01-HG/L75L-01-DO


Impairment Cause PCBs in Fish Tissue & Hg in Fish Tissue & DO

TMDL Due Date 2014, 2020, 2016

Completed TMDL Information

TMDL Approval Dates


Amanda B. Gray, Water Planning Engineer or
Paula Nash, TMDL Coordinator


Date



Blue Ridge Region - Lynchburg Office

2008 Impaired Waters Fact Sheets

Roanoke (Staunton) River, Cub Creek, Kerr Reservoir

Cause Group Code: L19R-01-PCB

Location: Roanoke (Staunton) River from Leesville Dam to the John H. Kerr Dam including Kerr Reservoir, its tributaries Eastland Creek and Nutbush Creek (within the state of Virginia) and Cub Creek from its mouth to the crossing of Rough Creek Road near Rough Creek.

City / County: Campbell Co.

Charlotte Co.

Halifax Co.

Mecklenburg Co.

Pittsylvania Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: **PCB in Fish Tissue/ 5A**

Station IDs:

Near Route 29 - Altavista

4AROA129.55 (2006 FT/Sediment) - 1 species exceeded VDH upper level of concern

Near Long Island

4AROA108.09 (2006 FT/Sediment) - 1 species exceeded VDH upper level of concern

Near Brookneal

4AROA097.07 (2006 FT/Sediment) - 1 species exceeded VDH upper level of concern

Near Route 746 - Randolph

4AROA067.91 (2006 FT/Sediment) - 2 species exceed VDH upper level of concern

Near Route 360 - Clover

4AROA059.12 (2006 FT/Sediment) - 2 species exceed VDH upper level of concern

Near Clarksville

4AROA036.59 (2006 FT/Sediment) - 2 species exceeded VDH lower level of concern

Kerr Reservoir near Ivy Hill

4AROA028.04 (2006 FT/Sediment) - 2 species exceed VDH lower level of concern

Lake Gaston near State Line

4AROA004.54 (2006 FT/Sediment) - 1 species exceeded VDH lower level of concern

Cub Creek near Route 40 Gaging Station

4ACUB010.96 (2006 FT/Sediment) - 1 species exceeded VDH upper level of concern

VDH Fish Advisory - Issued 7/24/98, revised 8/31/07

Roanoke (Staunton) River from below Leesville Dam downstream ~ 98 miles to the confluence of Dan River including its tributary Cub Creek up to Rough Creek Road (State Route 695) near Rough Creek.

VDH recommends the following precautions to reduce any potential harmful effects from eating contaminated fish:

Eat smaller, younger fish (within the legal limits). Younger fish are less likely to contain harmful levels of contaminants than larger, older fish.

Eat fewer or smaller servings of fish.

Try to eat different species of fish from various sources (i.e., different creeks, rivers and streams).

Cleaning or cooking contaminated fish does not eliminate or reduce mercury. However, levels of PCBs in fish can be reduced by taking the following precautions:

Remove the skin, the fat from the belly and top and internal organs before cooking the fish.

Bake, broil or grill on an open rack to allow fats to drain away from the meat.

Discard the fats that cook out of the fish.

Avoid or reduce the amount of fish drippings or broth that is used to flavor the meal.

Eat less deep-fried fish, since frying seals contaminants into the fatty tissue.

For more information about fish consumption advisories, including frequently asked questions go to www.vdh.virginia.gov.

Roanoke (Staunton) River, Cub Creek, Kerr Reservoir

Fish Consumption

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

PCB in Fish Tissue - Total Impaired Size by Water Type:

31,635.92

102.44

TMDL Due Date: 2010

Sources:

Source Unknown



Blue Ridge Region - Lynchburg Office

2008 Impaired Waters Fact Sheets

Roanoke (Staunton) River, Cub Creek, Kerr Reservoir

Cause Group Code: L19R-01-HG

Location: Roanoke (Staunton) River from Leesville Dam to the John H. Kerr Dam including Kerr Reservoir, its tributaries Eastland Creek and Nutbush Creek (within the state of Virginia) and Cub Creek from its mouth to the crossing of Rough Creek Road near Rough Creek.

City / County: Campbell Co. Charlotte Co. Halifax Co. Mecklenburg Co. Pittsylvania Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue/ 5A

Station IDs:

Near Route 29 - Altavista
 4AROA129.55 (2006 FT/Sediment) - 2 species exceed VDH level of concern
 Near Brookneal
 4AROA097.07 (2006 FT/Sediment) - 1 species exceeded VDH level of concern
 Near Route 746 - Randolph
 4AROA067.91 (2006 FT/Sediment) - 1 species exceeded VDH level of concern
 Near Route 360 - Clover
 4AROA059.12 (2006 FT/Sediment) - 4 species exceed VDH level of concern
 Near Clarksville
 4AROA036.59 (2006 FT/Sediment) - 1 species exceeded VDH level of concern
 Kerr Reservoir near Ivy Hill
 4AROA028.04 (2006 FT/Sediment) - 2 species exceed VDH level of concern
 Lake Gaston near State Line
 4AROA004.54 (2006 FT/Sediment) - 1 species exceeded VDH level of concern
 Cub Creek near Route 40 Gaging Station
 4ACUB010.96 (2006 FT/Sediment) - 1 species exceeded VDH level of concern

VDH Fish Advisory - Issued 8/31/07

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Roanoke (Staunton) River, Cub Creek, Kerr Reservoir

Fish Consumption

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
	31,635.92	102.44

Mercury in Fish Tissue - Total Impaired Size by Water Type:

TMDL Due Date: 2020

Sources:

Source Unknown



Blue Ridge Region - Lynchburg Office

2008 Impaired Waters Fact Sheets

Kerr Reservoir, Bluestone Creek, Buffalo Creek

Cause Group Code: L75L-01-DO

Location: Kerr Reservoir from the John H. Kerr dam to its backwaters, excluding the Dan River portion, Bluestone Creek and Buffalo Creek.

City / County: Halifax Co.

Mecklenburg Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved/ 5A

Station IDs:

4AROA018.36 Dissolved Oxygen - 13/84 Violation Rate

4AROA022.52 Dissolved Oxygen - 17/115 Violation Rate

4AROA028.04 Dissolved Oxygen - 14/65 Violation Rate

4AROA032.42 Dissolved Oxygen - 18/68 Violation Rate

Insufficient Data to make Nutrient Assessment at each Lacustrine Station

Chlorophyll a - 0/1 Samples (90% Calculated over 1 Sample Yr)

Transitional Zone Stations:

4AROA038.49 Dissolved Oxygen - 23/84 Violation Rate

4AROA043.14 Dissolved Oxygen - 4/45 Violation Rate

4ABHB004.40 Dissolved Oxygen - 7/50 Violation Rate

4AGRA003.22 Dissolved Oxygen - 9/39 Violation Rate

4ABST001.13 Dissolved Oxygen - 10/38 Violation Rate

4ABHB004.40 Dissolved Oxygen - 7/50 Violation Rate

Pooled Data:

Dissolved Oxygen - 115/588

pH - 2/759

Kerr Reservoir, Bluestone Creek, Buffalo Creek

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Oxygen, Dissolved - Total Impaired Size by Water Type:

31,635.92

TMDL Due Date: 2016

Sources:

Source Unknown

MEMORANDUM
Department of Environmental Quality
Blue Ridge Regional Office

7705 Timberlake Road

Lynchburg, Virginia 24502

Subject: Planning and TMDL Service Requests for VPDES Permits

To: Amanda Gray, Water Planning Engineer to
Paula Nash, TMDL Coordinator

From: Leah Revelle, Water Permit Writer *(LRR)*

Date: *1/25/2010*

Copies: Planning File

The request for information is to be made at the following times:

Planning: Upon sending the reissuance reminder letter to the facility or, for an issuance or modification,
at the time of application/modification request receipt.
TMDL: Same as above. For VPDES general permits, at the time of registration statement receipt.

FACILITY NAME: Dominion – Mecklenburg Power Station

VPDES PERMIT NO. VA0084069 EXPIRATION DATE: 8/10/2010

FACILITY PHYSICAL LOCATION: 204 Cogen Drive, Clarksville, VA 23927 (Mecklenburg County)

INDIVIDUAL PERMIT ACTION: Issuance Reissuance Modification

GENERAL PERMIT ACTION: New Coverage Previously Covered – N/A

PERMIT TYPE: Major Minor General Municipal Industrial Storm Water TMP TRE

If a VPDES General Permit, which type: *Note: VPDES General Storm Water Industrial permit requirements incorporated into the individual permit.

PERMIT WRITERS: ATTACH THE FOLLOWING

- Topo map with facility location and outfall locations clearly marked (include any proposed outfalls)
- Site diagram for facilities with multiple outfalls
- Description or map showing effluent flow path if not apparent on topo map
- The outfall numbers, latitude, longitude, receiving stream and topo name in the table below (use an additional sheet if there are more outfalls)

Outfall No.	Latitude	Longitude	Receiving Stream	Topo Name
001	36° 36' 10"	78° 31' 50"	Kerr Reservoir	012D, Clarksville South
101	Internal Outfall		Kerr Reservoir	012D, Clarksville South
102	Internal Outfall		Kerr Reservoir	012D, Clarksville South
003	36° 36' 01"	78° 31' 42"	Kerr Reservoir	012D, Clarksville South

007	36° 36' 06"	78° 31' 50"	Kerr Reservoir	012D, Clarksville South
004 – 006, 008 – 012	Non-regulated storm water		Kerr Reservoir	012D, Clarksville South

DATE INFORMATION NEEDED: February 1, 2010